Kaltura Video App for Canvas Setup Guide

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Kaltura
open source video

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Preface

This preface contains the following topics:

- About this Guide
- Audience
- Document Conventions

About this Guide

This guide describes how to setup the Kaltura Video App for Canvas. Instructions are provided for setting up the app's behavior and how to control user roles and permissions using the Kaltura Application Framework (KAF) Admin Console.

NOTE: Please refer to the official and latest product release notes for last-minute updates. Technical support may be obtained directly from: Kaltura Customer Care.

Contact Us: Please send your documentation-related comments and feedback or report mistakes to knowledge@kaltura.com. We are committed to improving our documentation and your feedback is important to us.

Audience

This guide is intended for Canvas and Kaltura administrators.

Prerequisite Reading

- Kaltura Video App for Canvas User Manual
- Kaltura Video App for Canvas Deployment Guide

Document Conventions

Kaltura uses the following admonitions:

- Note

NOTE: Identifies important information that contains helpful suggestions.

- Workflow

Workflow: Provides workflow information.

1. Step 1
2. Step 2

SECTION 1

Prerequisites

The following items are required to setup the Kaltura Video App for Canvas:

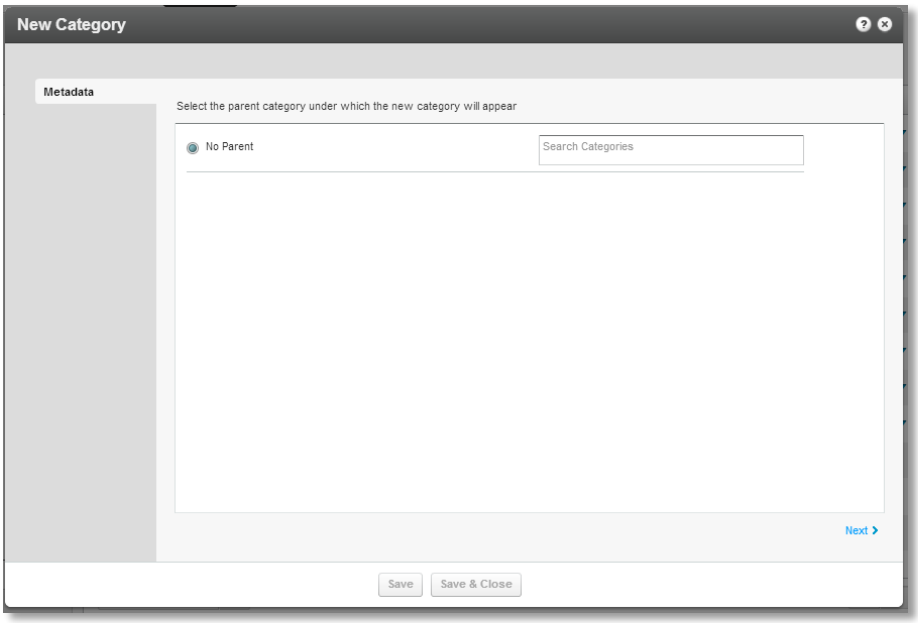
- Access to a Canvas environment with Account Admin permissions.
- A Kaltura account - Please contact your Kaltura representative for your Kaltura account details.
- Deployment of the Kaltura Video App for Canvas on your Canvas environment. For deployment instructions, see Kaltura Video App for Canvas Deployment Guide
- KAF Admin Console – please ask your Kaltura representative for credentials to access your KAF Admin Console instance.

Before You Begin

You will need to create a Canvas root category in the KMC.

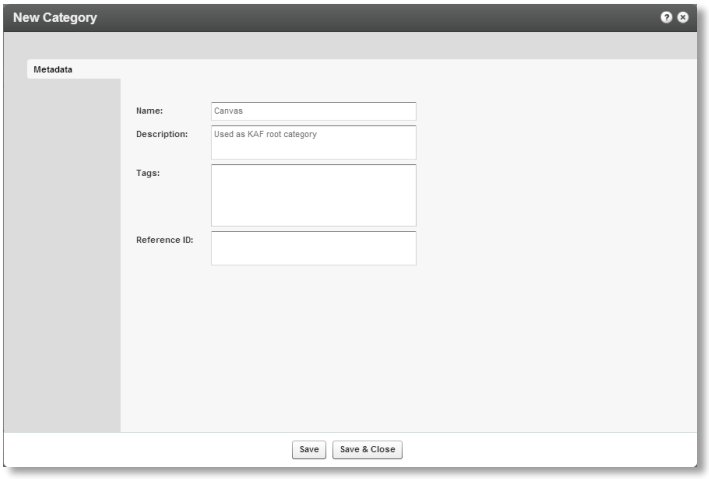
To create the Canvas root category in the KMC

1. Log into the KMC.
2. Select the **Content** tab and then select the **Categories** tab.
3. Click **Add Category.**
4. On the New Category window, select the position of the root category and save your new category.



5. Click **Next.**

6. In the metadata tab, enter metadata for your new category and click Save.



SECTION 2

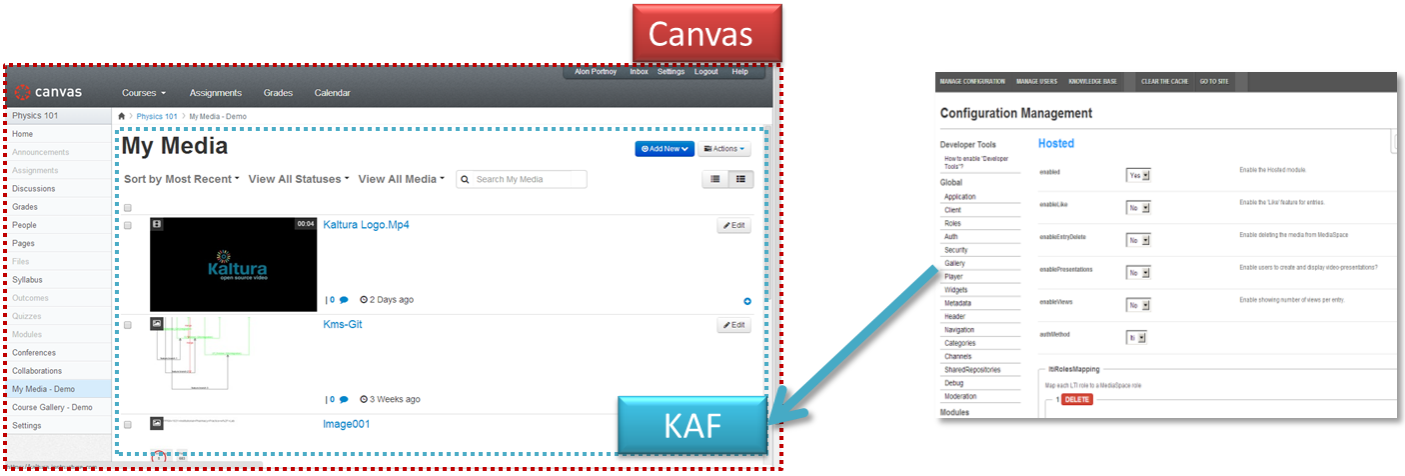
Understanding the Setup Process

The Kaltura Video App for Canvas offers an out-of-the-box solution that enables users to view, record, upload, publish, search, and share video directly from their Canvas environment. This translates into time and money saved for your organization, improved student engagement, creativity and learning results, as well as ease of use for students, faculty and teaching assistants.

The Kaltura Application Framework (KAF) Admin Console

The Kaltura Video App for Canvas is implemented on top of the Kaltura Application Framework (KAF), a feature rich framework that allows flexible and streamlined integration of Kaltura's video solution and products into 3rd party applications such as Canvas. KAF is hosted and served directly from the Kaltura cloud servers and once integrated into your Canvas environment, presents different video components and workflows to users.

At the backend, the Kaltura Application Framework provides a flexible and extensible administration panel, called "KAF Admin Console". The KAF Admin Console offers full control over the user experience and when interacting with videos inside Canvas. Nearly all configuration aspects of the Kaltura Video App for Canvas are configured through the KAF Admin Console.



Canvas KAF Admin Console

KAF Modules

Your KAF instance is composed of multiple **KAF modules**, such as "Application", "Player", and "Auth". Each module controls a different aspect of your Kaltura Video App for Canvas instance. A KAF module is composed of a set of **configuration fields**. All KAF modules are listed on the left menu in your KAF Admin Console instance.

NOTE: Your KAF Admin Console may display modules and configuration fields that are not listed in this guide, some of which may be disabled. It is important that you do not modify the configuration of the disabled modules (and not enable them) without consulting with your Kaltura representative.

The following KAF modules are required for configuring the Kaltura Video App for Canvas and are described in this guide:

- Application
- Client
- Auth
- Security
- Player
- Metadata
- Categories
- Addcontent
- Captions
- Comments
- Customdata
- Publish
- Screencapture
- Channelmoderation
- Audioentry
- Imageentry
- Videopresnetation
- Canvas
- Browseandembed
- Hosted

KAF Admin General Configuration

Related KAF modules: Application, Auth, Client, Security, Categories, Addcontent, Publish, Browseandembed, Canvas, Hosted

Mandatory Settings

Your KAF account comes pre-configured with the following settings which **should not be changed**:

Module	Fields	Description
Application	InstanceId, privacyContext, userRoleProfile	Internal constant identifiers of your KAF instance. Please note that privacyContext should be empty.
Auth	sslSettings	All site
Client	serviceUrl	https://www.kaltura.com
	VerifySLL	Yes
Security	allowLoadInIframe	Yes
Addcontent	enabled	Yes
Publish	enabled	Yes
Browseandembed	enabled	Yes

Module	Fields	Description
Canvas	enabled	Yes
Hosted	enabled	Yes
	enableLike	No
	enabledEntryDelete	No
	enablePresentations	No
	enableViews	No
	authMethod	Lti

In addition, you will need to specify the root category you created under the Categories module.

Module	Fields	Description
Categories	rootCategory	Select the category you created in the KMC.

KAF Admin Module Configuration

This section describes how to configure the KAF Modules.

NOTE: Related KAF modules: Audioentry, Imageentry, Captions

Player Look and Feel

Module	Fields	Description
Player	playerId	Choose the player to use when playing back videos in My Media and in Media Gallery. Use a player id (uiConf id) from the list of players available in your KMC account (In KMC, go to Studio and select Players List.
	playerVideoRatioPercent	The ratio (in percent) of the video inside the player. Standard values: 16:9 = 56.25 , 4:3 = 75 , 16:10 = 62.5
	playerEditId	The player ID (uiConf ID) of the player that is used to edit entries.
	autoPlayOnLoad	Determines whether the video should start playing automatically when the player loads.
Audioentry	audioPlayerId	Player ID (uiConf ID) of the player that plays audio entries.
Imageentry	imagePlayerId	Player ID (uiConf ID) of the player that shows images.

Captions

NOTE: Related KAF modules: Audioentry, Imageentry, Captions

Enable the captions module to allow end users to upload captions to entries they own.

Module	Fields	Description
Captions	captionsKsuId	The uiConf ID of the Kaltura Simple Uploader (KSU) used for captions. MediaSpace uses KSU to upload .SRT and .DFXP caption files.

NOTE: Regardless of the Captions settings, when captions are available for a video entry they are also available to the end user playing the video.

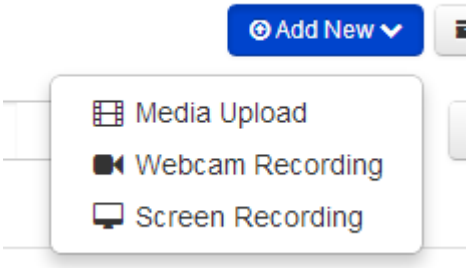
Authoring Methods

Related KAF modules: Widgets, Screencapture

The KAF Admin Console provides great flexibility in configuring different authoring methods users can utilize for creating new content. To date, the following methods are available (with additional methods to be added in the future):

- Uploading media from the local machine
- Capturing a video from a webcam using the Kaltura Webcam Recorder (KRecord)
- Creating a new screencast using the Kaltura Screen Recorder (KSR)

Please refer to the Kaltura Video App for Canvas User Manual for more details about each of these methods.



Media Upload

Please refer to Roles and Permissions.

Webcam Recording

Module	Fields	Description
Widgets	krecordId	The uiConf ID of the kRecord widget. MediaSpace uses kRecord to record and upload video from a webcam.
	rtmpUrl	The URL of your RTMP Server. The URL is required for Webcam recording.

Screen Recording

Module	Fields	Description
Screencapture	Enabled	Adds the “Screen Recording” option to the Add New menu.
	ksrId	What is the widget ID (uiConf ID) of the Kaltura Screen Recorder Widget (KSR) used in MediaSpace?
	videoBitrate	The video bitrate quality (in kbps) to use for the capture. For example 2000
	advancedOptionsEnabled	Enable the option to select frames per second by the user

Metadata

Related KAF modules: Metadata, Customdata

Use the Metadata and Customdata modules to define what types of metadata users are able to provide when uploading new content to their My Media or to a course Media Gallery.

Module	Fields	Description
Metadata	descriptionRequired	Require users to fill in the 'Description' field when uploading or editing media
	tagsRequired	Require users to fill in the 'Tags' field when uploading or editing media.
	readMoreEnabled	Enable/disable read more for entry description - shortening to 500 characters.
	metaDataInReadMore	If enabled metadata is hidden until clicking on 'read more...' works for all descriptions - entry/channel/category.

Use the Customdata module to choose a custom metadata profile:

Module	Fields	Description
Customdata	enable	Enable the Customdata module.
	profileId	The ID of the custom metadata. Copy the custom data schema ID from KMC > Settings > Custom Data. (http://www.kaltura.com/index.php/kmc/kmc4#account|metadata)
	dateFormat	The format of the date for the date picker?
	requiredFields	The custom data fields required before publishing media. Use custom data system names from KMC > Settings > Custom Data (http://www.kaltura.com/index.php/kmc/kmc4#account|metadata)
	privateFields	The custom data fields that are not displayed in MediaSpace. Use custom data system names from KMC > Settings > Custom Data (http://www.kaltura.com/index.php/kmc/kmc4#account|metadata).

Module	Fields	Description
		Note: Private custom data fields are not hidden when the media owner accesses media from My Media.

Comments

Related KAF modules: Comments

The Comments module is used to enable users to add comments to videos and to have conversations around published entries. By default, all comments are public and are visible to all viewers of the entry. For example, if a video is shared in two courses, Course A and Course B, and a student in Course B adds a comment to the video, the comment will be visible to members of Course A. A course owner may choose to keep all comments for the course videos, private, however, public comments from other courses will be visible.

Module	Fields	Description
Comments	enable	Enable the Comments module.
	commentAllowed	Defines who can add comments. See Roles and Permissions.
	allowClose	Allows content owners to disable/close comments for particular entries.
	showPrivateCommentsConfig	When set to Yes, adds the option “Keep comments private to channel” in the Media Gallery settings page, to allow channel owners to set comments as private.

Roles and Permissions

Related KAF modules: Hosted

See Common Use Cases of Role Configuration for information and recommendations for common role configuration in the Kaltura Video App for Canvas.

Role Mapping

The Kaltura Video App for Canvas implements role mapping from Canvas roles to Kaltura roles via LIS roles. Each role that is assigned to a user in Canvas is mapped to one of the roles defined in the LIS standard. When a user is assigned with a role in a Canvas course for example. Student or Teacher, Canvas translates this role to an LIS role which is then sent to KAF. On KAF's side, a dedicated module provides flexible mapping between LIS roles and Kaltura roles, allowing a very granular control over the behavior of the different Kaltura modules in Canvas.

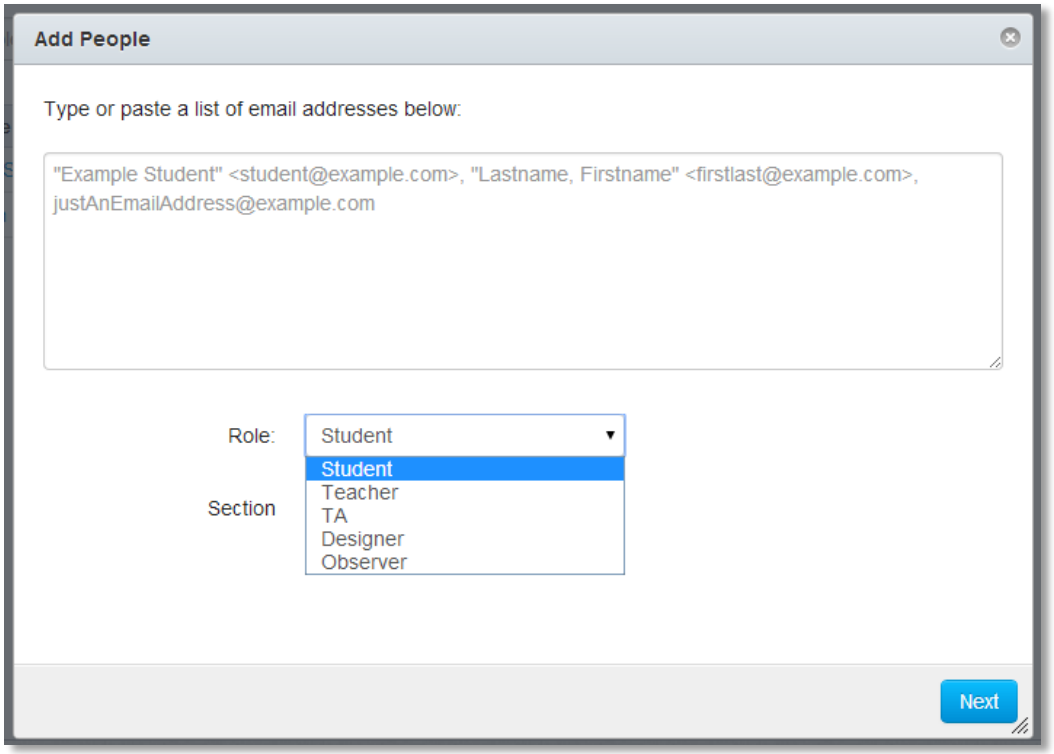
This process is described in the following workflow:

Workflow:

1. Users are assigned a Canvas role when added to courses via the Add People dialog
2. Canvas sends the corresponding LIS role to Kaltura.
3. KAF Grants Permissions according to mapping.

Add People

Users are assigned a Canvas role when added to courses via the Add People dialog:



Canvas Sends Corresponding LIS Role to Kaltura

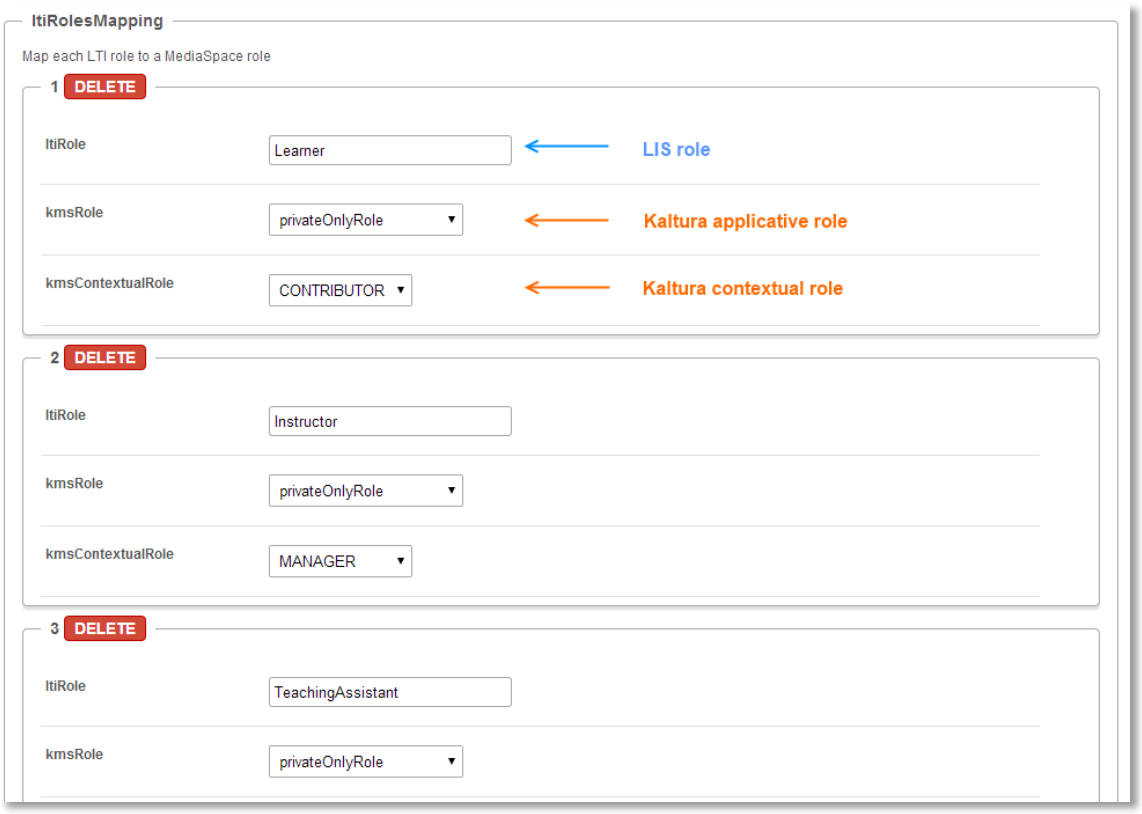
When the user accesses a Kaltura module, such as My Media and Media Gallery, Canvas sends the corresponding LIS role to Kaltura, according to the following mapping:

Canvas role	LIS role
Student	'Learner'
Teacher	'Instructor'

Canvas role	LIS role
TA	'TeachingAssistant'
Designer	'ContentDeveloper'
Observer	'Observer'

KAF Grants Permissions According to the Mapping

On the KAF Admin Console side, each LIS role can be mapped back to Kaltura roles. KAF grants different permissions according to the mapping provided in the Hosted module in the KAF Admin Console:



As displayed, each LIS role is mapped in Kaltura to two roles – an **applicative role** (kmsRole) and a **contextual role (kmsContextualRole)**. These roles correspond to different cases/scenarios in Kaltura App for Canvas. Setting these roles changes the capabilities a user has in the following scenarios.:

- **Applicative role (KMSRole)** - Defines the user roles and permissions in Kaltura widgets that are out of course context (for example: My Media)
    - **anonymousRole** – Not relevant to the Canvas integration and should not be used.
    - **viewerRole** – The user will not have access to My Media, and will not be able to upload new content to either My Media, Media Gallery or using the Embed Kaltura Media text-editor button.
    - **privateOnlyRole** – The user will have access to My Media and will have the ability to upload new content.
    - **adminRole, unmoderatedAdminRole** – not relevant to the Canvas integration and should not be used.
- **Contextual role (KMScontextualrole)** - Defines the user roles and permission in Kaltura widgets when in a course context (for example: course Media Gallery)
    - **Member**: The user will be able to view content in Media Galleries of courses to which the user is enrolled, but will not be able to contribute (publish) to the galleries.

- **Contributor**: The user has Member permissions with the ability to publish content to the Media Gallery.
- **Moderator**: The user has Contributor permissions with the ability to moderate content added to the Media Gallery.
- **Manager**: The user has Moderator permissions with the ability edit the Media Gallery settings, and view the course gallery analytics.

From the Kaltura module's perspective, the permissions are as follows

- **My Media**
  - **Applicative role:** If viewerRole, the user will not have access to My Media and will not be able to upload new content. If privateOnlyRole the user will be able to have its own My Media repository to where he can upload his own private content.
  - **Contextual role**: does not impact My Media.
- **Media Gallery**
  - **Applicative role**: If the user has a contextual role that allows publishing/adding content to the Media Gallery (see below), and the user has an Applicative role of **privateOnlyRole**, the user will be able to upload new content or contribute content from its own private My Media repository.
  - **Contextual role**: Determines the role of the user inside the Media Gallery (note – users can access a course Media Gallery after they have access to the course page in Canvas, regardless of their Kaltura role.

Role	Permissions
Member	If the user has **Member** contextual role, the user will be treated as a "viewer only" in the Media Gallery, and will only be able to view content, and will not be able to contribute content to the Gallery (regardless of the user's Applicative role).
Contributor	Users with **Contributor** role can view Media Gallery entries and upload and contribute entries from My Media (if applicative role is privateOnlyRole). Students are usually assigned Member or Contributor contextual roles.
Moderator	**Moderator** role allows the users to moderate content published to a Media Gallery (and to contribute new content). Teaching Assistants usually have Moderator contextual roles.
Manager	A **Manager** roles provides full access to the Media Gallery, including the ability to moderate content, edit the Media Gallery's settings and metadata, and access the Media Gallery Analytics. Instructors usually have Manager contextual roles

- **Embed Kaltura Video** (rich-text editor button)
  - **Applicative role**: If **viewerRole**, the user will not have access to My Media and will not be able to upload new content. If **privateOnlyRole** the user will be able to have their own My Media repository to where they can upload their private content.
  - **Contextual role**: does not impact Embed Kaltura Video.

SECTION 3

Common Use Cases of Role Configuration

This section provides recommendations for common role configuration in the Kaltura Video App for Canvas. All configurations are set in the Hosted KAF module in the KAF Admin Console.

Canvas Role	Use case	Kaltura		
		ItiRole	kmsRole	kmsContextualRole
Student	Allow authoring new content (upload, webcam recording, screencast recording) and allow publishing to course Media Galleries	Learner	privateOnlyRole	CONTRIBUTOR
Student	Allow viewing content only. Do not allow authoring new content or publishing to course Media Galleries. It is recommended to hide the My Media navigation link on the course menu, so that students will not receive an “Access Denied” screen when trying to access My Media.	Learner	viewerRole	MEMBER
TA (Teaching Assistant)	Allow to author new content, to contribute to course Media Galleries and to moderate course media galleries.	TeachingAssistant	privateOnlyRole	MODERATOR
Teacher	Allow authoring new content, contributing to course Media Galleries and moderating course Media Galleries.	Instructor	privateOnlyRole	MANAGER
Designer	Allow authoring new content,	ContentDeveloper	privateOnlyRole	MANAGER

Canvas Role	Use case	Kaltura		
		ltiRole	kmsRole	kmsContextualRole
	contributing to course Media Galleries and moderating course Media Galleries.			
Observer	Only allow viewing.	Observer	viewOnly	MEMBER

Summary of Default Canvas -> LIS -> Kaltura Roles Mapping

Canvas role	LIS role	Kaltura applicative role (kmsRole)	Kaltura contextual role (kmsContextualRole)
Student	'Learner'	privateOnlyRole	CONTRIBUTOR
Teacher	'Instructor'	privateOnlyRole	MANAGER
TA	'TeachingAssistant'	privateOnlyRole	MODERATOR
Designer	'ContentDeveloper'	privateOnlyRole	MANAGER
Observer	'Observer'	viewerRole	MEMBER